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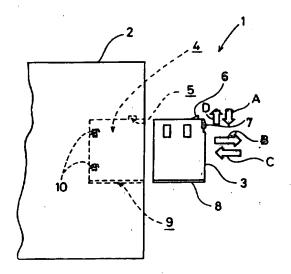
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(54)【発明の名称】 情報処理機器

(57)【要約】

【目的】 情報処理機器の搬送・移動時に機器本体とコードレス入出力部とを一体に管理できるようにすることによって、上記コードレス入出力部の紛失や携帯し忘れ等の発生を極力防止できる情報処理機器の提供。

【構成】 ワードプロセッサ1は機器本体2とこの機器本体2との通信を無線手段により行うコードレスマウス3を備えている。そして、コードレスマウス3が不使用時であって上記ワードプロセッサ1を持ち運びする際には、コードレスマウス3は機器本体2に設けられたマウス格納部4内に着脱可能に格納される。従って、上記機器本体2とコードレスマウス3とが一体で搬送・移動されるので、コードレスマウス3の紛失等を極力防止することができる。又、コードレスマウス3を使用する際には、コードレスマウス3はマウス格納部4から取り出された後、機器本体2に対しコードレスで操作性良く信号入力を行うことができる。



(54) INFORMATION PROCESSOR

(11) 6-19582 (A) (43) 28.1.1994 (19) JP

(21) Appl. No. 4-176690 (22) 3.7.1992

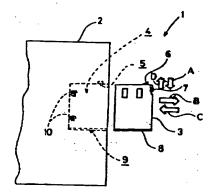
(71) SHARP CORP (72) HITOSHI YAMAMOTO

(51) Int. Cls. G06F1/16

PURPOSE: To extremely prevent the generation of the loss of a cordless inputting and outputting part, or the forgetting to carry it by integratedly managing a device main body and the cordless inputting and outputting part at the time

of carrying and moving an information processor.

CONSTITUTION: A word processor 1 is equipped with a device main body 2, and a mouse means 3 which operates a communication with the device main body 2 by a radio means. Then, at the time of carrying the word processor 1 when the cordless mouse 3 is not used, the cordless mouse 3 can be housed in a mouse storage part 4 provided at the device main body 2 so as to be attachable and detachable. Therefore, the device main body 2 and the cordless mouse 3 can be integratedly carried and moved, so that the loss of the cordless mouse 3 or the like can be extremely prevented. And also, at the time of using the cordless mouse 3, the cordless mouse 3 is detached from the mouse storage part 4, and a signal input can be cordless-operated to the device main body 2 with a high operability.



(54) ELECTRONIC EQUIPMENT

(11) 6-19583 (A) (43) 28.1.1994 (19) JP

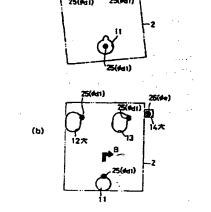
(21) Appl. No. 4-172093 (22) 30.6.1992

(71) CANON INC (72) AKIRA MIYAGAWA

(51) Int. Cl⁵. G06F1/16

PURPOSE: To provide an electronic equipment having a simple constitution at a low cost in which a secondary storage device can be easily attached and detached.

CONSTITUTION: The slit parts of three projecting parts 25 at the secondary storage device side are dropped into the elliptic circular parts of each corresponding hole 11-13 constituted of an elliptic circle and a small circular part at a device main body side, rotated in a hook-shaped direction (B) to each small circular direction of the holes 11-13, and the slit parts of the projecting parts 25 are engaged with each small circular part of each corresponding hole 11-13. Then, a lever 26 of a lock mechanism at the secondary storage device side is dropped into a hole 14 at the main body side, and locked, and the secondary storage device is mounted. On the other hand, the lever 26 of the lock mechanism at the secondary storage device side is lifted, and the secondary storage device is rotated to the reverse direction.



(54) COOLING DEVICE FOR ELECTRONIC COMPUTER

(11) 6-19584 (A) (43) 28.1.1994 (19) JP

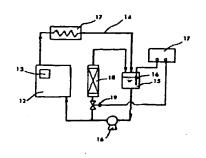
(21) Appl. No. 4-175211 (22) 2.7.1992

(71) HITACHI LTD (72) KAZUTOSHI ITO(2)

(51) Int. Cl⁵. G06F1/20,C02F1/461,C02F1/62

PURPOSE: To suppress the corrosion of the corrosion resisting iron system member of a device, to prevent the trouble of a cooling water leakage or the like, and to improve the reliability of the device by providing a means which removes an copper ion in circulating cooling water in the device or a means which controls the electricity transmissivity of the cooling water.

CONSTITUTION: A cooling structure body 13 is fixed to plural semiconductor modules 12, and connected with a cooling water tube 14. A copper ion selective electrode 16 is inserted into a cooling water tank 15, and a copper ion in the cooling water is controlled by a density analysis controller 17 by using a copper ion density measured value as an index. A honeycomb structure aluminium copper ion capturing equipment is provided at a copper ion removing equipment 18. Then, pure water including the copper ion is deposited on an aluminium by the reducing reaction of the copper ion accompanied with the elution of the aluminium when the copper ion passes through the copper ion capturing equipment, the copper ion in the pure water is removed, and a copper ion density is less than 100ppm. Therefore, the corrosion of the corrosion preventing iron system member in the cooling device can be prevented, and the reliability



Partial Translation of Japanese Laid-Open Patent Application No. 6-19582

INFORMATION PROCESSOR

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pp.2-3

[CLAIMS]

[Claim 1]

An information processing apparatus comprising a device main body and a cordless input/output section for realizing communication with a radio means, wherein a storage part to removably store said cordless input/output section to said device main body is provided.

[0006]

[EMBODIMENT]

A preferred embodiment of the present invention will be explained with reference to the accompanying drawings for further understanding of the present invention. The embodiment explained below is only an example of the present invention and does not limit the technical scope of the present invention. Here, Fig. 1 is a perspective view showing the essential portion of a word processor in relation to an embodiment of the present invention and also showing a part of the cordless mouse stored in this word processor. Fig. 2 is a diagram for explaining the arrangement of the apparatus body of the word processor and cordless mouse. Fig. 3 is a perspective view showing the essential portion showing the condition that the cordless mouse is removed from the apparatus The word processor 1 as the information processing apparatus of this embodiment is provided, as shown in Fig. 1 and Fig. 2, with a mouse storage part 4 (storing section in the present invention) which can removably store the cordless mouse 3 (an example of the cordless input/output section in the present invention) at the lower part of the right side surface of the device main body 2. Communication between the device main body 2 and cordless mouse 3 can be realized by the radio means respectively comprised in these elements (not illustrated). At the side surface of case of the cordless mouse 3, the projected area 6 having the triangular flat surface is provided to appear or disappear against the side surface of the case. The projected area 6 can appear or disappear in the directions of wide arrow marks A, D in conjunction with a take-out knob 7 which is provided slidable in the direction of wide arrow marks A, D at the side surface of the cordless mouse 3 in the downstream side in the direction of wide arrow mark B. The projected area 6 is always energized to be projected from the side surface of the case with a spring member (not illustrated) comprised in the cordless mouse 3. On the other hand, the mouse storage part 4 of the device main body 2 is

provided with a recess section 5 which is removaly engaged with the projected area 6 of the cordless mouse 3. Moreover, a rail section 8 is formed along the directions of wide arrow marks B, C at the opposite side surface against the arrangement surface of the projected area 6 of the cordless mouse 3. On the other hand, at the internal side surface of the mouse storage part 4 facing to the rail section, a slide groove 9 for guiding the rail section 8 slidable in the directions of wide arrow marks B, C is formed. Moreover, at the internal side surface at the deepest area of the mouse storage part 4, a coil spring 10 is provided. This coil spring 10 has a function to surely store and hold the cordless mouse 3 by energizing the cordless mouse 3 stored in the mouse storage part 4 up to the position where the projected area 6 and recessed area 5 are engaged in the direction of wide arrow mark B.

[0007]

Therefore, when the cordless mouse 3 previously taken out from the device main body 2 is stored within the mouse storage part 4, the cordless mouse 3 is inserted toward the mouse storage part 4, as shown in Fig. 2 and Fig. 3, under the condition that the rail section 8 of the cordless mouse 3 is engaged with the slide groove 9 of the mouse storage part 4. When the rail section 8 is guided along the slide groove 9, the side surface in the downstream side in the direction of wide arrow mark C of the cordless mouse 3 is placed in contact with the coil spring 10 and thereby the mouse 10 is energized in the direction of wide arrow mark B. Moreover, since the cordless mouse 3 is pushed in the direction of wide arrow mark C, the projected area of the cordless mouse 3 is engaged with the recessed area 5 of the mouse storage part 4. Accordingly, the cordless mouse can surely be held in the mouse storage part 4 of the device main body 2 through the engaging condition of the projected area 6 and recessed area 5 with an energizing force by the coil spring 10. As explained above, since the cordless mouse 3 is integrally stored, when it is not used, to the mouse storage part 4 of the device main body 2, even when the word processor 1 is carried or moved, the cordless mouse is never carried separately unlike the prior art. Therefore, the cordless mouse 3 can be prevented as much as possible from generation of missing and forgetting of carrying. When the cordless mouse stored in the mouse storage part 4 is taken out, since the take-out knob 7 is manually moved in the direction of wide arrow mark A as shown in Fig. 1, the projected area 6 is stored toward the cordless mouse 3 (in the direction of wide arrow mark A) in conjunction with such movement, canceling the engaging condition with the recessed area 5. Accordingly, the cordless mouse 3 can be pushed in the direction of wide arrow mark B with an energizing force of the coil spring 10. a cordless mouse 3 which can input the signal to the device main body 2 on the cordless function basis by means of the radio means has been explained but the mouse is not limited only to that explained above. Namely, as the cordless input/output section in the present invention, it is possible, for example, to form the mouse in such a manner that a display section such as LCD is provided to

the cordless mouse and signal output from the device main body 2 is received for display by means of the radio means. In addition, in this embodiment, a word processor 1 is indicated as the information processing apparatus but the apparatus is not limited thereto and can also be applied to the apparatus having the cordless input/output section explained above, such as a personal commuter.

[0008]

[Effect of the Invention]

According to the present invention, the means employed in the present invention provides an information processing apparatus comprising an apparatus body and a cordless input/output section to realize communication with the apparatus body by means of a radio means, wherein a storing section is provided to removably store the cordless input/output section to the apparatus body. Thereby, even when the information processing apparatus is transferred or moved, generation of missing or forgetting of carrying of the cordless input/output section can be prevented as much as possible.

[BRIEF DESCRIPTION OF THE DRAWINGS]

[Fig. 1]

A partial perspective view of the essential portion of the word processor in relation to an embodiment of the present invention and the cordless mouse stored in the word processor.

[Fig. 2]

Diagram for explaining arrangement of the apparatus body of word processor and cordless mouse.

[Fig. 3]

Perspective view of essential portion showing the condition that the cordless mouse is taken out from the apparatus body.

[Description of Reference Numerals]

- 1. Word processor (information processing apparatus);
-device main body;
-Cordless mouse (cordless input/outputs section);
- 4.Mouse storing section (cordless input/output section):
- 5.Recessed area (storing section);
- 6.Projected area.